

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
6 April 2006 (06.04.2006)

PCT

(10) International Publication Number
WO 2006/036968 A3

(51) International Patent Classification:
A61N 5/06 (2006.01)

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(21) International Application Number:
PCT/US2005/034613

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(22) International Filing Date:
28 September 2005 (28.09.2005)

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY,
MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO,
NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK,
SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,
VC, VN, YU, ZA, ZM, ZW.

(30) Priority Data:
60/613,303 28 September 2004 (28.09.2004) US

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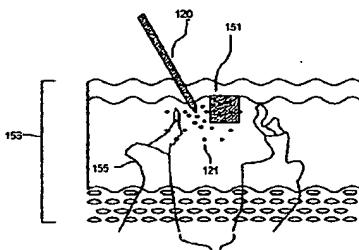
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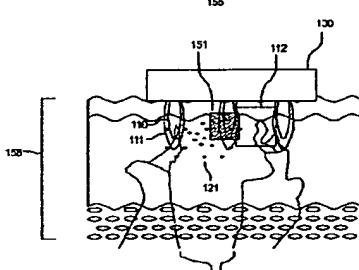
(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SI, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CL, CY, CZ, DE, DK, EE, ES, FI,

[Continued on next page]

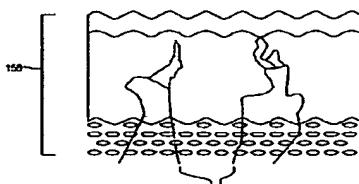
(54) Title: METHODS AND APPARATUS FOR MODULATION OF THE IMMUNE RESPONSE USING LIGHT-BASED FRACTIONAL TREATMENT



A



B



C

(57) Abstract: The invention describes a method and apparatus (100) for the modulation of an immune response, for the removal of a foreign body (151) in skin or a visceral organ. A fractional phototherapy device (100) is used to produce an acute stimulus for the immune response. The immune response may be enhanced by applying an exogenous substance (121). The immune modulation may be targeted or directed toward the treatment of a particular foreign body through the creation and amplification of particular biological signatures. This invention is particularly appropriate for treatment of skin cancer, autoimmune diseases, inflammatory diseases, and fungi.

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FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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Published:

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(88) Date of publication of the international search report:

23 November 2006

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/34613

A. CLASSIFICATION OF SUBJECT MATTER

IPC: A61N 5/06(2006.01)

USPC: 607/88,89

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 607/88,89

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,616,140 A (Prescott) 01 April 1997 (01.04.1997), see the entire document.	1-3, 9, 16 and 38
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Y		2-15, 17-37 and 39-47
Y,P	US 6,899,723 B2 (Chen) 31 May 2005 (31.05.2005), see the entire document.	2-15, 17-37 and 39-47
Y,P	US 6,811,564 B1 (Strachan) 02.11.2004 (02.11.2004), see the entire document.	2-15, 17-37 and 39-47
Y,P	US 6,805,701 B1 (Cortes) 19 October 2004 (19.10.2004), see the entire document.	2-15, 17-37 and 39-47

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Date of the actual completion of the international search

07 August 2006 (07.08.2006)

Date of mailing of the international search report

18 SEP 2006

Name and mailing address of the ISA/US

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Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

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